

What Is Claimed Is:

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1. A method of processing a plurality of call detail records (CDRs) each indicative of a call transaction on a telecommunications network comprising:
  - receiving said plurality of CDRs at a first controller, each
  - 5 of said CDRs having a data structure including a plurality of fields containing at least one character;
  - selecting a first sorting field from said plurality of fields and grouping said plurality of CDRs as a function of data within said first sorting field;
  - 10 analyzing a second sorting field within each of said CDRs within a group of CDRs sorted by said first sorting field; and
  - generating a report for each of said grouped CDRs as a function of data within said second sorting field.
2. A method according to claim 1 wherein said
- 15 plurality of CDRs are generated at a second controller remotely located from said first controller, said second controller coupled to said telecommunications network.
3. A method according to claim 1 wherein at least one of said plurality of fields includes a plurality of subfields.
- 20 4. A method according to claim 1 wherein said call transaction is a long distance calling card transaction.
5. A method according to claim 1 wherein said first sorting field is a carrier identification field.

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6. A method according to claim 5 wherein said second sorting field is an enhanced service identifier comprising at least one of the following subfields: message store and forward, directory assistance, or conference calling.

5 7. A method according to claim 1 wherein receiving includes periodically receiving said plurality of CDRs at a first controller at daily, weekly, monthly, quarterly, or yearly intervals.

8. A method according to claim 1 further comprising analyzing a third sorting field within each of said CDRs within a group  
10 of CDRs sorted by said first sorting field, and generating a report for each of said grouped CDRs as a function of data within said second and third sorting fields.

9. A method according to claim 8 wherein generating a report includes determining and displaying a system variable as a  
15 function of data within at least one of said second and third sorting fields.

10. A method according to claim 9 wherein said second sorting field contains data indicative of Total Call Attempts and said system variable corresponds to Successful Call Attempts.

20 11. A method according to claim 1 wherein said report is a Trunk Capacity Report including transaction activity for an originating trunk group and a terminating trunk group.

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12. A call detail record (CDR) processing system for a telecommunications network comprising:

a system cluster in operative communication with said telecommunications network for generating a plurality of CDRs each indicative of a call transaction on said telecommunications network;

a production database server periodically receiving and storing said CDRs from said system cluster; and

user access server in operative communication with said production database server, said user access server programmed to select a first sorting field from a plurality of fields within each CDR and group said plurality of CDRs as a function of data within said first sorting field, analyze a second sorting field within each of said CDRs within a group of CDRs sorted by said first sorting field, and generate a report for each of said grouped CDRs as a function of data within said second sorting field.

13. A system according to claim 12 wherein said cluster comprises a plurality of servers.

14. A system according to claim 13 comprising a plurality of remotely located clusters.

15. A system according to claim 14 comprising a master database in operative communication with each of said plurality of remotely located clusters, said master database for storing each of said plurality of CDRs generated by each of said clusters.

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16. A system according to claim 12 wherein said system cluster is a calling card system cluster generating a CDR in response to each calling card transaction on said telecommunications network.

17. A system according to claim 12 wherein said CDR fields comprise at least one of a Call Type Offered field, System Failure field, Rate Class field, Method of Recording field, Message Type field, or Call Statistics field.

18. A system according to claim 17 wherein said Call Statistics field comprises at least one of the following subfields: message store and forward, directory assistance, or conference calling.

19. A system according to claim 17 wherein said Rate Class field comprises at least one of the following subfields: person-to-person, operator station-to-station, dialed station, or operator assisted dialing.

20. A system according to claim 17 wherein said Call Type Offered field comprises at least one of the following subfields: local exchange carrier calling card or proprietary calling card.